## **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filing date (day month year)  PCT/SE 2005/000383 17 March 2005 22 March 2004  Applicant  Bioarctic Neuroscience AB et al  This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
Applicant  Bioarctic Neuroscience AB et al  This international search report has been prepared by this International Searching Authority and is transmitted to the							
Bioarctic Neuroscience AB et al  This international search report has been prepared by this International Searching Authority and is transmitted to the							
This international search report has been prepared by this International Searching Authority and is transmitted to the							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
This international search report consists of a total of5_ sheets.							
It is also accompanied by a copy of each prior art document cited in this report.							
1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of:  the international application in the language in which it was filed  a translation of the international application into  of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))  b. X With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  Certain claims were found unsearchable (see Box No. II)  Unity of invention is lacking (see Box No. III)  With regard to the title,  the text is approved as submitted by the applicant.  X the text has been established by this Authority to read as follows:  Transgenic model for Alzheimer's disease							
<ul> <li>5. With regard to the abstract,  the text is approved as submitted by the applicant.  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</li> <li>6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No  as suggested by the applicant.  as selected by this Authority, because the applicant failed to suggest a figure.  as selected by this Authority, because this figure better characterizes the invention.</li> <li>b. X none of the figures is to be published with the abstract.</li> </ul>							

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Box No.	. I Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet)
inve a. t	h regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed intion, the international search was carried out on the basis of:  ype of material  a sequence listing  table(s) related to the sequence listing
	ormat of material  on paper  in electronic form
c. ti	ime of filing/furnishing  contained in the international application as filed  filed together with the international application in electronic form  furnished subsequently to this Authority for the purposes of search
2.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Addi	itional comments:
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Form PCT/ISA/210 (continuation of first sheet (1)) (April 2005)

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01K 67/027
According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, se arch terms used)

# EPO-INTERNAL, WPI DATA, PAJ, BIOSIS, MEDLINE, EMBASE

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No	
Y	Wirths, Oliver et al, "Intraneuronal A Beta accumulation precedes plaque formation in Beta-amyloid precursor protein and presenilin-1 double-transgenic mice", Neuroscience Letters, 2001, vol. 306, page 116 - page 120, abstract; page 17, column 1, paragraph 2; figure 2; page 118, column 2, lines 2 - page 119, column 1, paragraph 2; page 119, column 1, last paragraph	1-23	
Y	Qiao-Xin Li et al, "Intracellular Accumulation of Detergent-Soluble Amyloidogenic A Beta Fragment of Alzheimer's Disease Precursor Protein in the Hippocampus of Aged Transgenic Mice", J. Neurochem. 1999, vol. 72, page 2479 - page 2487, abstract	1-23	

X	Further documents are listed in the continuation of Box	C.	X See patent family annex.			
*	Special categories of cited documents:	<i>"</i> T"	1			
"A"	document defining the general state of the art which is not considered to be of particular relevance	-	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
*E*	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive			
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	doubts on priority claim(s) or which is considered novel or cannot b				
*~*	special reason (as specified)	"Y"	document of particular relevance: the claimed invention cannot be			
<b>"O"</b>	document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"P"	document published prior to the international filing date but later than		being obvious to a person skilled in the art			
	the priority date claimed	<b>"&amp;"</b>	document member of the same patent family			
Date	e of the actual completion of the international search	Date of mailing of the international search report				
1	July 2005	<b>0</b> 6 -07- 2005				
Name and mailing address of the ISA/			Authorized officer			
Swedish Patent Office						
Box 5055, S-102 42 STOCKHOLM			T 0 1. 1. 1. 1.			
Regionally No. 1 45 0 555 00 05			Terese Sandström/EÖ			
	7 40 8 000 UZ 80	Telephone No. + 46 8 782 25 00				

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#### INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2005/000383

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C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	De-Hua Chui et al, "Transgenic mice with Alzheimer presenilin 1 mutations show accelerated neurodegeneration without amyloid plaque formation", Nature Medicine, May 1999, vol. 5, no. 5, page 560 - page 564, abstract	1-23
Y	WO 0203911 A2 (LANNFELT, LARS), 17 January 2002 (17.01.2002), page 9, paragraph 2; page 13, paragraph 2	1-23
A	page 6, paragraph 5	1-4,11-16, 22-23
	<del></del>	·
Y	Stenh, Charlotte et al, "The Arctic mutation interferes with processing of the amyloid precursor protein", Neuroreport, October 2002, vol. 13, no. 15, page 1857 - page 1860, page 1860, column 1, paragraph 3; page 1860, column 2, paragraph 2	1-23
	<del></del>	
Y	Nilsberth, Camilla et al, "The 'Arctic' APP mutation (E693G) causes Alzheimer's disease by enhanced A Beta protofibril formation", Nature neuroscience, September 2001, vol. 4, no. 9, page 887 - page 893, page 891, column 1, last line - page 892, column 1, paragraph 1	1-23
A	Fagan, Anne M. et al, "Human and Murine ApoE Markedly Alters A Beta Metabolism before and after Plaque Formation in a Mouse Model of Alzheimer's Disease", Neurobiology of Disease, 2002, vol. 9, page 305 - page 318, abstract	6,18

	<u> </u>		
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	ant passages	Relevant to claim No
A	BIOSIS, accession no. PREV200400201273,  Iwata N et al: "Clearance of amyloid - bet in the brain by adeno - associated viral wediated neprilysin gene transfer", Societ Neuroscience Abstract Viewer and Itinerary 33rd Annual Meeting of the Society of Neuroscience; New Orleans, LA, USA; Novemb 08-12, 2003, vol. 2003, Abstract No. 525.6	vector - ty for y Planner, per	10,21
x	US 20030200555 A1 (DARIA JEAN HAZUDA ET AL), 23 October 2003 (23.10.2003), paragraphs (0335); (0374) - (0379)	(0330) -	1-2,4,11-14, 16,22-23
A	US 5898094 A (KAREN DUFF ET AL), 27 April 1999 (27.04.1999), column 3, lines 27 - 30	;	5,17
A	WO 02102412 A2 (MCGILL UNIVERSITY), 27 December 2002 (27.12.2002)		1-23
	~~		
P,Y	Crowather, D. C. et al, "Intraneuronal A Beta, non-amyloid aggregates and neurodegenerati drosophila model of alzheimer's disease", Neuroscience, 2005, vol. 132, page 123 - pastract	on in a	1-23
P,X	WO 2004041213 A2 (BIOARCTIC NEUROSCIENCE AB ET 21 May 2004 (21.05.2004), page 37, line 3 38, line 3; page 57, lines 19-25	AL), 80 - page	1,4,8-9, 11-13,14,16, 22,23
P,A	US 20040255341 A1 (DAVID A. LOWE ET AL), 16 December 2004 (16.12.2004)		1-4,11-13, 14-16,22-23
		•	

### · INTERNATIONAL SEARCH REPORT

Information on patent family members

28/05/2005

International application No. PCT/SE 2005/000383

WO	0203911	A2	17/01/2002	AU CA EP JP US	6800501 2414772 1309341 2004502442 20020162129	A A T	21/01/2002 17/01/2002 14/05/2003 29/01/2004 31/10/2002
US	20030200555	A1	23/10/2003	WO CA EP JP US WO	2004099376 2448142 1395275 2004530704 20050032190 02094985	AAATAA	18/11/2004 28/11/2002 10/03/2004 07/10/2004 10/02/2005 28/11/2002
US -	5898094	A	27/04/1999	AU AU CA EP IL JP WO	719507 4820297 2268812 0946712 129501 2002515750 9817782	A D T	11/05/2000 15/05/1998 30/04/1998 06/10/1999 00/00/0000 28/05/2002 30/04/1998
WO	02102412	A2	27/12/2002	US	20040248766	A	09/12/2004
WO	2004041213	A2	21/05/2004	AU	2003285151	A	00/00/0000
US	20040255341	A1	16/12/2004	WO	2005041650	A	12/05/2005